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International application No.

PCT/IL04/00047

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C12N 15/82, 15/83, 15/87, 15/90 US CL : 800/278, 285, 286 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 800/278, 285, 286					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WEST, Agricola, CAplus, Biosis					
C. DOC	UMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a		Relevant to claim No.		
Х	VOINNET et al. Suppression of Gene Silencing: A General Strategy Used by Diverse DNA		1, 2, 4		
Ÿ	and RNA Viruses of Plants. PNAS. 23 November 1999, Vol. 96, No. 24, pages 14147-14152, see whole document.		3, 5		
A	MALLORY et al. The Amplicon-Plus System for High-Level Expression of Transgenes in		t-5		
A	Plants. Nature Biotech. June 2002, Vol. 20, pages 622-625, see whole document MARATHE et al. RNA Viruses as Inducers, Supressors, and Targets of Post- 1-5				
Y	Transcriptional Gene Silencing. Plant Mol. Biol. 2000, Vol. 43, pages 295-306. GAL-ON et al. Particle Bombardment Drastically Increases the Infectivity of Cloned DNA				
•	of Zucchini Yellow Mosaic Potyvirus, J. Gen. Virol whole document.	. 1995, Vol. 76, pages 3223-3227, see			
Υ	KARASAWA et al. One Amino Acid Change in Cuc Determines Virulent/Avirulent Phenotypes on Cowp pages 1186-1192, see pages 1186-1191.	number Mosaic Virus RNA Polymeruse ea. Phtopath. 1999, Vol. 89, No. 12,	3		
Mari	distribution of Pow C	See patent family annex.			
	documents are listed in the continuation of Box C.	· · · · · ·	mational filing date or priority		
date and not in conflict with the application but cited to understand the		ation but cited to understand the			
of particular relevance					
"E" earlier ap	and the second s		ed to involve an inventive step		
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination			
"O" document	referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the	art		
	published prior to the international filing date but later than the	*& document member of the same patent i	amily		
Date of the actual completion of the international search Date of mailing of the international search report 0.2 MAY 2005			th report		
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	ailing address of the ISA/US il Stop PCT, Atm: ISA/US	Municipal	-www		
Commissioner for Patents		Ashwin Mehta			
P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. 571-272-1600					
Facsimile No. (703) 305-3230					

Form PCT/ISA/210 (second sheet) (January 2004)

International application No.
PCT/IL04/00047

ategory *	ontinuation) DOCUMENTS CONSIDERED TO BE RELEVANT ory • Citation of document, with indication, where appropriate, of the relevant passages	
X	DESCRIPTION OF Visal Pathogenicity Determinants are Suppressors of Transgene Silencing	
Y	in Nicotiana Benthamiana. EMBO J. 1998, Vol. 17, No. 22, pages 6739-6746, see whole document.	3, 5

International application No. PCT/IL04/00047

Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This internation	nal search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
	en V., Maria '

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons.
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: 22-25 because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: Claims 22-25 were unsearchable because they attempt to limit a method of previous claim 21. However, claim 21 is directed to a product, not a method.
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows: Please See Continuation Sheet
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. 3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-5 Remark on Protest The additional search fees were accompanied by the applicant's protest.
Remark on Protest The additional search fees were accompanied by the applicant a protest. No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet(2)) (January 2004)

International application No. PCT/IL04/00047

BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claim(s) 1-5, drawn to a first method, of enhancing expression of an exogenous polynucleotide sequence in a plant, comprising administering to the plant a virus selected capable of suppressing gene silencing in said plant.

Group II, claim(s) 6-11, drawn to a second method, of identifying a gene silencing agent.

Group III, claim(s) 12-20, drawn to a third method, of producing a molecule of interest.

Group IV, claim(s) 21, drawn to a first product, an article of manufacturing comprising a container including a virus selected capable of suppressing gene silencing in a plant and a packaging material.

The inventions listed as Groups I-IV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the special technical feature of Group I is the administration of a virus, capable of suppressing gene silencing in a plant, to that plant, wherein the plant comprises an exogenous polynucleotide sequence, wherein said administration enhances expression of said polynucleotide sequence. The special technical feature of Group II is the identification of a virus capable of suppressing gene silencing in a plant; the special technical feature Group III is administration of a virus capable of suppressing gene silencing to any plant, including those that do not comprise and exogenous nucleotide sequence, and extracting any molecule of interest from the plant; the special technical feature of Group IV is a virus capable of suppressing gene silencing in a plant.

However, the prior art teaches the enhancement of expression of an exogenous polynucleotide sequence in a plant, by administration of a virus that suppresses gene silencing. Brignetti et al. (Viral Pathogenicity Determinants are Suppressors of Transgene Silencing in Nictoiana benthamiana. EMBO J. 1998, Vol. 17, No. 22, pages 6739-6746, see pages 6739-6743) teach the expression of green fluorescent protein (GFP) in plants following inoculation of potato virus Y (PVY) or cucumber mosaic virus (CMV), wherein GFP was silenced in the plant prior to viral inoculation. These viruses were shown to contain suppressors of gene silencing. Therefore this special technical feature of the groups is not a contribution over the prior art.

Claims 22-25 are unsearchable, because they attempt to limit a method of previous claim 21. However, claim 21 is direct to a product, not a method.